

AMENDMENT TO THE CLAIMS

The following claim set replaces all prior versions, and listings, of claims in the application:

1. – 20. (canceled)
21. (new) A process comprising polymerizing at least one aliphatic C₂₋₂₀ hydrocarbyl mono- or multiolefin in the presence of a catalyst and an aluminum-comprising co-catalyst, wherein the catalyst is a composition comprising a metal-organic reagent, a spectator ligand and optionally at least one equivalent of a hydrocarbylating agent, and wherein the metal organic reagent is represented by ML_jX_p , where M is Ti, X is a monoanionic ligand bonded to M, L is a neutral ligand bonded to M, j represents an integer denoting the number of neutral ligands L, and p is the valence of the metal M, and wherein the spectator ligand is an imine ligand or an HA adduct thereof, wherein HA represents an acid of which H represents its proton and A represents its conjugate base.
22. (new) Process according to claim 21, wherein the hydrocarbylating agent comprises a metal or a metalloid chosen from group 1, 2, 11, 12, 13 or 13.
23. (new) Process according to claim 22, wherein the hydrocarbylating agent comprises Li, Mg, Zn or Al.
24. (new) Process according to claim 23, wherein the hydrocarbylating agent is a C₁-C₂₀ trihydrocarbyl aluminum or aluminoxane.
25. (new) Process according to claim 21, which further comprises conducting polymerization in the presence of a base other than the hydrocarbylating agent.
26. (new) Process according to claim 21, wherein the metal-organic reagent comprises a cyclopentadienyl-comprising ligand.

27. (new) Process according to claim 21, which comprising conducting polymerization in the presence of between 5 to 10 equivalents of the spectator ligand.